

P1857.5

Submitter Email: wgao@pku.edu.cn
Type of Project: New IEEE Standard
PAR Request Date: 21-Oct-2013
PAR Approval Date: 11-Dec-2013
PAR Expiration Date: 31-Dec-2017
Status: PAR for a New IEEE Standard

1.1 Project Number: P1857.5
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Title: Standard for Advanced Mobile Speech and Audio

3.1 Working Group: Audio Video Coding Working Group (C/SAB/AVS_1857_WG)

Contact Information for Working Group Chair

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3.2 Sponsoring Society and Committee: IEEE Computer Society/Standards Activities Board (C/SAB)

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4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 07/2014

4.3 Projected Completion Date for Submittal to RevCom: 01/2015

5.1 Approximate number of people expected to be actively involved in the development of this project: 20

5.2 Scope: This standard defines a set of speech and audio compression, decompression, and packaging tools and mechanism applied in mobile communication, wireless broadband multimedia communications, internet broadband streaming media service, etc.

5.3 Is the completion of this standard dependent upon the completion of another standard: No

5.4 Purpose: This part of standard provides regular low bit rate speech and audio coding tool sets for wireless and mobile speech and audio compression and decompression, it provides error masking ability, supports stereo effect, supports wideband audio quality and saves bandwidth for wireless transmission and mobile communication and memory space for storage.

5.5 Need for the Project: A highly efficient way is provided to transmit and store audio and speech data under constraints that include limited complexity and bandwidth. There are some alternative specifications with similar purpose but they do not satisfy the need for balance between low bit rate and mobile communications for providing high-quality aural services in limited bandwidth settings.

5.6 Stakeholders for the Standard: Stakeholders include but not limited to

- Audio and video products (hardware or software) manufacturers or vendors
 - Aural and visual content providers
 - Video and audio service providers, including broadcasting operators, Internet video service providers
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Intellectual Property

6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: Yes

If yes please explain: The submission in plan includes one audio part. The audio part is an extension version of the national standard of China GB/T 20090.10 in Chinese. The authors of the GB/T 20090.10 reported to the SAC (Standardization Administration of China) which owns the copyright of all national standards of China. The response from SAC (in oral but not on paper) is that it is encouraged to promote national standards as standards of other organizations, including ISO, IEC and IEEE.

6.1.b. Is the Sponsor aware of possible registration activity related to this project?: No

7.1 Are there other standards or projects with a similar scope?: Yes

If Yes please explain: The audio coding tools developed by ISO/IEC in MPEG-1/2/4 are mainly used in broadcasting industry, which required accurate frame rate, and assured bandwidth. G.711, G.722, G.726, G.727, G.723, G.729 developed by ITU-T are mainly used in telecommunication industry. None of them is specified for wireless broadband multimedia communication system. 3GPP developed AMR, AMR-WB and AMR-WB+ that are mainly used in the telecommunication industry. This proposed standard provides not only a solution to mobile communication, wireless broadband communication, and internet broadband streaming media service, but also giving an alternative of tools for transmission and storage.

and answer the following

Sponsor Organization: ISO/IEC, ITU-T, 3GPP

Project/Standard Number: G.711, G.722, G.723, G.726, G.727, G.729, 3GPP TS 26.190, 3GPP TS 26.290

Project/Standard Date:

Project/Standard Title: Audio parts of the MPEG-1/2 and MPEG-4, AMR Wideband speech codec, Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec

7.2 Joint Development

Is it the intent to develop this document jointly with another organization?: No

8.1 Additional Explanatory Notes (Item Number and Explanation): GB/T 20090.10, Chinese National Standard, Information technology - Advanced coding of audio and video - Part 10: Mobile Speech and Audio